Magnetic Fishing

Make a magnetic "fishing rod" and "catch" some paper fish!

Kit contains:

- ring magnet
- large craft stick
- string
- 3 paper fish
- 3 paper clips

You will need: coloring supplies and tape (both optional).

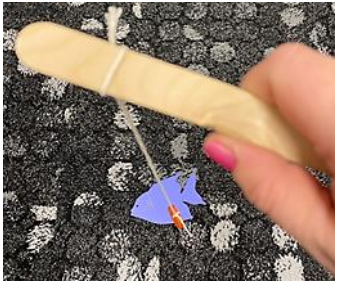
MORTON GROVE PUBLIC LIBRARY
6140 Lincoln Avenue, Morton Grove, IL 60053
Youth Info Desk: 847-929-5102 | mgpl.org

INSTRUCTIONS

(1) Tie one end of the string to the craft stick.

(2) Tie the other end to the ring magnet. If it slips off the craft stick, use some tape to secure it.

(3) If you'd like to decorate your fish, you can!



(4) Put one paper clip on each fish.

(5) To play, put the fish on the ground and stand above them. Try to pick them up with your magnetic fishing rod!

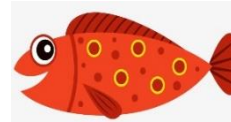
Sources:
https://kids.britannica.com/kids/article/Magnet-and-Magnetism/353411
https://www.factretriever.com/fun-fish-facts

WHAT'S GOING ON?

A magnet is an object that has a magnetic force, or the force to attract specific objects to it. Magnetism works due to the movement of tiny electrical charges. All magnets have a magnetic field, which is the area around the magnet. If a magnetic object like a paper clip enters the magnetic field, it is pulled toward the magnet.

All magnetic objects are made of metal, but not all metals are magnetic. The main metals that are attracted by magnets are iron, cobalt, and nickel.

FACTS ABOUT FISH!



- There are over 32,000 known species of fish!
- Fish can form schools with millions of fish!
- The biggest fish in the world is the whale shark!
- Sailfish can swim up to 68 miles per hour!
- The first vertebrates in the world were fish, and they evolved 550 million years ago!

EXTENSION

You can do lots of cool things with your magnet! Try "fishing" for other things in your house. Does your magnet pick up a coin? A pencil? A stone? A nail or screw? Try lots of things!

Another fun experiment to try with your magnet involves cereal. Many cereals have iron added – our bodies need iron to help our blood work properly – and iron is very magnetic. Try putting some pieces of a cereal that has iron added into this kit's plastic bag, and then mush it up really well until it's almost like a powder. You should be able to take the magnet outside the bag and separate the iron from the rest of the cereal!

BOOKS TO LEARN MORE!

- *Magnets Push, Magnets Pull* by David A. Adler
- *The Simple Science of Magnets* by Emily James
- *Magnetism* by Carolyn Bernhardt
- *Fish Everywhere* by Britta Teckentrup
- *All the Fish in the World* by David Opie